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| (21) International Application Number: PCT/EP96/01688 (22) International Filing Date: 23 April 1996 (23.04.96) (30) Priority Data: 9509888.5 16 May 1995 (16.05.95) GB (71) Applicant (for all designated States except US): PHARMACIA S.P.A. [IT/IT]; Via Robert Koch, 1.2, I-20152 Milano (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): BATTISTINI, Carlo [IT/IT]; Via G. Verga, 1, I-20026 Novate Milanese (IT). CIOMEI, Marina [IT/IT]; Via del Molo, 1, I-27020 Torre d'Isola (IT). PIETRA, Francesco [IT/IT]; Via della Fratta, 9, I-55100 Lucca (IT). D'AMBROSIO, Michele [IT/IT]; Via Sabbioni, 22/9, I-38050 Povo (IT). GUERRIERO, Antonio [IT/IT]; Via Malta, 1, I-38100 Trento (IT). | | (81) Designated States: AU, BY, CA, CN, HU, JP, KR, KZ, MX, NO, NZ, PL, RU, UA, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| (54) Title: TERPENOIDIC DERIVATIVES (SARCODICTYNS) USEFUL AS ANTITUMOR AGENTS (57) Abstract The present invention relates to terpenoidic derivatives, known in the art as Sarcodictyins, for use as therapeutic agents, and to pharmaceutical compositions containing them. In particular, Sarcodictyins can be useful as therapeutic antineoplastic agents in the treatment of cancers in human or animal beings. | | |

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TERPENOIDIC DERIVATIVES (SARCODICTYINS) USEFUL AS ANTITUMOR AGENTS

5 The present invention relates to terpenoidic derivatives, known in the art as Sarcodictyins (Helvetica Chimica Acta Vol. 70, 1987, 2019-2027 and Helvetica Chimica Acta, Vol. 71, 1988, 964-976), which can be useful as therapeutic agents.

10 A possible therapeutic application of the Sarcodictyins mentioned in the present application was not reported earlier.

In particular, according to the present invention, Sarcodictyins, in view of their cytotoxic activity, can
15 be of use as therapeutic antineoplastic agents in the treatment of cancers in human or animal beings.

Accordingly, the present invention refers to a compound selected from the group consisting of:

(-)-(4R,4aR,7R,10S,11S,12aR,1Z,5E,8Z)-7,10-Epoxy-
20 3,4,4a,7,10,11,12,12a-octahydro-7-hydroxy-6-(methoxy carbonyl)-1,10-dimethyl-4-(1-methylethyl)benzo cyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl) acrylate (Sarcodictyin A);

(-)-(4R,4aR,7R,10S,11S,12aR,1Z,5E,8Z)-7,10-Epoxy-6-
25 (ethoxycarbonyl)-3,4,4a,7,10,11,12,12a-octahydro-7-hydroxy-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate

(Sarcodictyin B);

(-) - (3R,4S,4aS,7S,10R,11R,12aS,1Z,5E,8Z) - 7,10-Epoxy-3,4,4a,7,10,11,12,12a-octahydro-3,7-dihydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl) benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin C);

(-) - (3R,4S,4aS,7S,10R,11R,12aS,1Z,5E,8Z) - 3-Acetoxy-7,10-epoxy-3,4,4a,7,10,11,12,12a-octahydro-7-hydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl) benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin D);

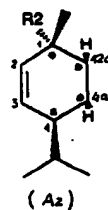
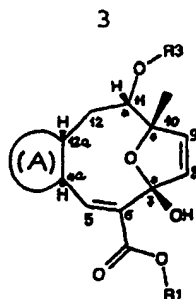
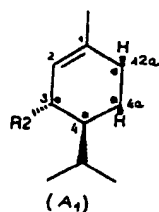
(+) - (3R,4S,4aS,7S,10R,11R,12aS,1Z,5E,8Z) - 7,10-Epoxy-3,4,4a,7,10,11,12,12a-octahydro-3,7-dihydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl) benzocyclodecen-11-yl (Z)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin E); and

(+) - (1R,4R,4aR,7R,10S,11S,12aR,2Z,5E,8Z) - 7,10-Epoxy-1,4,4a,7,10,11,12,12a-octahydro-1,7-dihydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl) benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin F);

for use as a therapeutic agent.

The structural formulae of the above listed compounds is reported in Table 1 below, with reference to the following formulae:

5



- 10 In the above formulae, the symbol * represent a chiral center.

Table 1

| COMPOUND | (A) | R ₁ | R ₂ | R ₃ |
|----------------|-------------------|----------------|----------------|----------------|
| Sarcodictyin A | (A ₁) | Me | H | (E) u |
| Sarcodictyin B | (A ₁) | Et | H | (E) u |
| Sarcodictyin C | (A ₁) | Me | OH | (E) u |
| Sarcodictyin D | (A ₁) | Me | OAC | (E) u |
| Sarcodictyin E | (A ₁) | Me | OH | (Z) u |
| Sarcodictyin F | (A ₂) | Me | OH | (E) u |

20

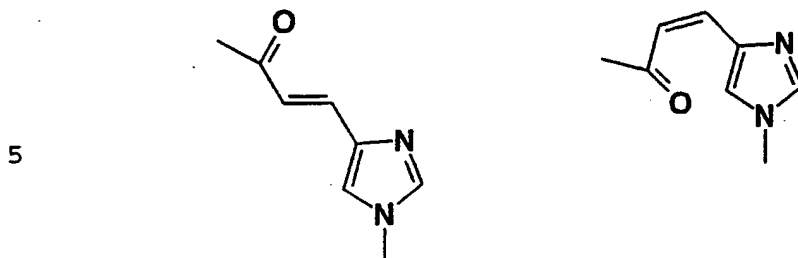
In the above Table 1:

the symbol Me means methyl;

the symbol Et means ethyl;

the symbol OAc means OCOCH₃.

the symbols (E)u and (Z)u represent, respectively, the (E) and (Z) urocanoyl moiety of formula



(E) urocanoyl

(Z) urocanoyl

In particular, the above reported Sarcodictyins A to F may
10 be useful as therapeutic agents in the treatment of cancers
in human or animal beings, by virtue of their cytotoxic,
antitumor activity. The cancer may be selected from
sarcomas, carcinomas, lymphomas, neuroblastomas, melanomas,
myelomas, Wilms tumor, leukemias and adenocarcinomas.

15 The Sarcodictyins of the invention may be obtained by
isolation from the Mediterranean Stoloniferan Coral
"Sarcodictyon Roseum" (Rolandia rosea) (Forbes 1847)
according to the method reported in Helvetica Chimica Acta
Vol. 70, 1987, page 2025.

20 The biological activity of the Sarcodictyins of the
invention was demonstrated by (a) "in vitro" test to
evaluate their activity in promoting the tubulin assembly
and (b) "in vitro" test to evaluate their cytotoxic
activity both on L 1210 cells and L 1210 cells resistant to
25 Doxorubicin (L 1210/Dx).

As an example, the activity of Sarcodictyin A (internal
code FCE 29123) and Sarcodictyin C (internal code FCE
29119) was evaluated according to the methods described

in tests (a) and (b).

(a) Tubulin assembly test

Calf brain tubulin was prepared by two cycles of assembly-disassembly (Shelanski M.L., Gaskin F. and Cantor C.R., Proc. Natl.Acad.Sci. U.S.A. 70, 765-768, 1973) and stored in liquid nitrogen in MAB (0.1 M MES, 2.5 mM EGTA, 0.5 mM MgSO₄, 0.1 mM EDTA, 0.1 mM DTT, pH 6.4).

All the experiments were carried out on protein stored for less than 4 weeks.

Before each experiment, tubulin was kept 30 min at 4°C. Assembly was monitored by the method of Gaskin et al. (Gaskin F., Cantor C.R. and Shelanski M.L., J.Molec.Biol. 89, 737-758, 1974).

The cuvette (1 cm path) containing tubulin (1mg/ml) and 1 mM GTP was shifted to 37°C and continuous turbidity measurements were made at 340 nm on a Perkin-Elmer 557 double wavelength, double beam spectrophotometer equipped with an automatic recorder and a thermostatically regulated sample chamber.

After 30 minutes, 4 mM CaCl₂ was added and depolymerisation was measured for 10 minutes as decreased turbidity.

At regular intervals of 15 minutes scaled doses of the tested compounds were added and variations in the turbidity were monitored.

Data are expressed as percentage of repolymerization

induced by the tested compounds.

The obtained results are reported in Table 2

Table 2

| | | | |
|---|----------------|-------------------|----------------------|
| 5 | COMPOUND | dosage (μ M) | tubulin assembly (%) |
| | Sarcodictyin A | 4 | 70 |
| | (FCE 29123) | 40 | 162 |
| | Sarcodictyin C | 3.9 | 112 |
| | (FCE 29119) | 39 | 173 |

10

The above tabulated data clearly demonstrate that the tested Sarcodictyins are able to promote tubulin repolymerization even in the presence of CaCl₂, which usually inhibits tubulin assembly.

15 As it is well known in the art, microtubules are among the most strategic subcellular targets of anticancer chemotherapeutics (Rowinsky et al., Review, Vol. 82, No. 15, August 1, 1990).

Unlike classical antimicrotubule agents like colchicine
20 and the vinca alkaloids which induce depolymerization of microtubules, Sarcodictyins seem to possess a mechanism of action similar to that of Taxol, one of the most interesting anticancer agents emerged from the screening of natural products, by inducing tubulin polymerization
25 and forming extremely stable and nonfunctional microtubules.

Sarcodictyins can therefore be useful as therapeutic antineoplastic agents in the treatment of cancers in human or animal beings, in view of their ability to catalize rapid microtubule formation and stabilization which cause suspension of cellular division in the tumor cells.

(b) Cell cultures and drug sensitivity assay

L1210 and L1210/DX (Doxorubicin resistant) murine leukemia cell lines were grown in vitro as a stationary suspension culture in RPMI 1640 medium (GIBCO, Grand island, NY) supplemented with 10% fetal calf serum (Flow, Irvine, UK), 2 mM L-glutamine (Gibco Europe, Glasgow, UK), 10 μ M β -mercaptoethanol, 100 Units/ml penicillin and 100 μ g/ml streptomycin.

Exponentially growing cells were seeded (1×10^5 cell/ml) in 12-well/plates (Costar, Cambridge, MA) and various concentrations of tested compounds were added immediately after seeding.

The plates were incubated at 37°C in a humidified, 5% CO₂ atmosphere for 48 hr.

Inhibition of cell growth was evaluated by counting surviving cells in a ZBI Coulter Counter (Hialeah, FL). The 50% inhibitory concentration (IC₅₀) was calculated on the derived concentration-response curve. For each tested compound concentration, duplicate cultures were used.

The obtained results are reported on Table 3

Table 3

| Compound | ID ₅₀ (nM) * | | R.I |
|-------------------------------|-------------------------|----------------|------|
| | L1210 | L1210/DX | |
| Sarcodictyin A (FCE 29123) | 539.2 ± 97.7 | 754.5 ± 80.3 | 1.4 |
| Sarcodictyin C (FCE 29119) | 408.5 ± 21.3 | 5787.0 ± 182.6 | 14.2 |

*48 h treatment

10 R.I. = Resistance index = $\frac{ID_{50} \text{ L1210/DX}}{ID_{50} \text{ L1210}}$

As evident from the above tabulated data, Sarcodictyins exhibit a good "in vitro" cytotoxic activity both on L1210 and L1210 cells resistant to Doxorubicin (L1210/Dx).

In view of their effectiveness on L 1210/DX cells, the Sarcodictyins can be useful in the treatment of a tumor resistant to a chemotherapeutic agent, such as, e.g., an anthracycline glycoside, in particular Doxorubicin.

20 A human or animal being can be treated by a method which comprises the administration thereto of a pharmaceutically effective amount of a compound selected from Sarcodictyin A, Sarcodictyin B, Sarcodictyin C, Sarcodictyin D, Sarcodictyin E and Sarcodictyin F.

25 The condition of the human or animal being can thereby

be improved.

The Sarcodictyins of the invention can be administered in a variety of dosage forms, e.g. orally, in the form of tables, capsules, sugar or film coated tablets, liquid solutions or suspensions; rectally in the form of suppositories; parenterally, e.g. intramuscularly, or by intravenous injection or infusion.

The dosage depends on the age, weight, conditions of the patient and on the administration route; for example, the dosage adopted for oral administration to adult humans, e.g., for the representative compound of the invention FCE 29213 (Sarcodictyin A) may range from about 0.01 g to about 1 g per day.

The invention includes also pharmaceutical compositions comprising a Sarcodictyin of the invention as an active principle in association with a pharmaceutically acceptable excipient (which can be a carrier or a diluent).

The pharmaceutical compositions containing the compounds of the invention are usually prepared following conventional methods and are administered in a pharmaceutically suitable form.

For example, the solid oral forms may contain, together with the active compound, diluents, e.g. lactose, destrose, saccharose, cellulose, corn starch or potato starch; lubricants, e.g. silica, talc, stearic acid, magnesium or calcium stearate, and/or polyethylene

glycols; binding agents, e.g. starches, arabic gums, gelatin, methylcellulose, carboxymethylcellulose or polyvinyl pyrrolidone; disaggregating agents, e.g. a starch, alginic acid, alginates or sodium starch glycolate; effervescing mixtures; dyestuffs; sweeteners; wetting agents such as lecithin, polysorbates, laurylsulphates; and, in general, non-toxic and pharmacologically inactive substances used in pharmaceutical formulations.

Said pharmaceutical preparations may be manufactured in known manner, for example by means of mixing, granulating, tabletting, sugar-coating, or film-coating processes.

The liquid dispersions for oral administration may be, e.g., syrups, emulsions and suspensions.

The syrups may contain as carrier, for example, saccharose or saccharose with glycerine and/or mannitol and/or sorbitol.

The suspensions and the emulsions may contain as carrier, for example, a natural gum, agar, sodium alginate, pectin, methylcellulose, carboxymethylcellulose, or polyvinyl alcohol.

The suspension or solution for intramuscular injections may contain, e.g., together with the active compound, a pharmaceutically acceptable carrier, e.g. sterile water, olive oil, ethyl oleate, glycols, e.g. propylene glycol, and, if desired, a suitable amount of lidocaine

hydrochloride.

The solutions for intravenous injections or infusion may contain as carrier, for example, sterile water or preferably they may be in the form of sterile, aqueous, isotonic saline solutions.

The suppositories may contain together with the active compound a pharmaceutically acceptable carrier, e.g. cocoa butter, polyethylene glycol, a polyoxyethylene sorbitan fatty acid ester surfactant or lecithin.

CLAIMS

1. A compound selected from the group consisting of:

(-) - (4R,4aR,7R,10S,11S,12aR,1Z,5E,8Z) -7,10-Epoxy-3,4,4a,7,10,11,12,12a-octahydro-7-hydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin A);

(-) - (4R,4aR,7R,10S,11S,12aR,1Z,5E,8Z) -7,10-Epoxy-6-(ethoxycarbonyl)-3,4,4a,7,10,11,12,12a-octahydro-7-hydroxy-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin B);

(-) - (3R,4S,4aS,7S,10R,11R,12aS,1Z,5E,8Z) -7,10-Epoxy-3,4,4a,7,10,11,12,12a-octahydro-3,7-dihydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin C);

(-) - (3R,4S,4aS,7S,10R,11R,12aS,1Z,5E,8Z) -3-Acetoxy-7,10-epoxy-3,4,4a,7,10,11,12,12a-octahydro-7-hydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin D);

(+) - (3R,4S,4aS,7S,10R,11R,12aS,1Z,5E,8Z) -7,10-Epoxy-3,4,4a,7,10,11,12,12a-octahydro-3,7-dihydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (Z)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin E); and

(+) - (1R,4R,4aR,7R,10S,11S,12aR,2Z,5E,8Z) - 7,10-Epoxy-1,4,4a,7,10,11,12,12a-octahydro-1,7-dihydroxy-6-(methoxycarbonyl)-1,10-dimethyl-4-(1-methylethyl)benzocyclodecen-11-yl (E)-3-(1-Methyl-1H-imidazol-4-yl)acrylate (Sarcodictyin F);

for use as a therapeutic agent.

2. A compound as claimed in claim 1, for use as enhancer of tubulin assembly which causes suspension of cellular division in the tumor cells.

10 3. A compound as claimed in claim 1, for use as antitumor agent.

4. A compound as claimed in claim 1, for use in the treatment of a tumor resistant to a chemotherapeutic agent.

15 5. A compound according to claim 4 wherein the chemotherapeutic agent is an anthracycline glycoside.

6. A compound according to claim 5 wherein the anthracycline glycoside is Doxorubicin.

7. Use of a compound as claimed in claim 1, in the preparation of a medicament for use as a therapeutic antineoplastic agent in the treatment of cancers in human or animal beings.

8. A pharmaceutical composition which comprises as an active ingredient a compound as claimed in claim 1 and a pharmaceutically acceptable carrier and/or diluent.

9. A pharmaceutical composition as claimed in claim 8, for use as enhancer of tubulin assembly which causes

suspension of cellular division in the tumor cells.

10. A pharmaceutical composition as claimed in claim 8, for use as a therapeutic antineoplastic agent in the treatment of cancers in human or animal beings.

5 11. A pharmaceutical composition as claimed in claim 8, for use in the treatment of tumors resistant to a chemotherapeutic agent.

12. A pharmaceutical composition according to claim 11, wherein the chemotherapeutic agent is an anthracycline
10 glycoside.

13. A pharmaceutical composition according to claim 12 wherein the anthracycline glycoside is Doxorubicin.

INTERNATIONAL SEARCH REPORT

In national Application No.
PCT/EP 96/01688

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61K31/415

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| A | <p>HELV.CHIM.ACTA, vol. 70, no. 8, 1987, pages 2019-27, XP000601545 D'AMBROSIO ET AL.: "Sarcodictyin A and Sarcodictyin B, novel diterpenoidic alcohols esterified by (E)-N(1)-methylurocanic acid. Isolation from the Mediterranean Stolonifer Sarcodictyon Roseum" cited in the application see the whole document</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p> | 1-13 |

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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9 September 1996

Date of mailing of the international search report

16.09.96

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|------------|--|-----------------------|
| A | <p>HELV.CHIM.ACTA, vol. 71, 1988, pages 964-976, XP002012952 D'AMBROSIO ET AL.: "Isolation from the Mediterranean Stoloniferan of Sarcodictyin C,D,E and F, novel diterpenoidic alcohols esterified by (E) or (Z)-N(1)-methylurocanic acid. Failure of the carbon-skeleton type as a classification criterion" cited in the application see the whole document ---</p> | 1-13 |
| A | <p>PROSTAGLANDINS, vol. 36, no. 5, 1988, pages 621-30, XP000601531 HONDA ET AL.: "Structure requirements for antiproliferative and cytotoxic activities of marine coral prostanoids from the Japanese stolonifer Clavularia Viridis against human myeloid leukemia cells in culture" see the whole document -----</p> | 1-13 |